

Work Element 400

August 2002

Data Systems Development

PBC Work Element Manager – David Han

OBJECTIVE: to define, develop, implement and evolve/enhance the requirements defined by NSSDC government staff relating to data storage, access and performance.

SIGNIFICANT EVENTS:

- Continued to support the operations staff with data ingest and archiving as needed.
- Maintained the DIONAS software suite and continued coding on enhancements to it.
- Continued planning of the system and processes to migrate NSSDC data to next generation of media.
- Coordinated with operations group for design and development of enhancements to DIONAS; coordinate software testing in an operational environment.
- Continued to interface with the Database Administrator about operational databases and next generation database designs.
- Continued to interface with NOST and coordinate the development of the next functional version of the NOST-supplied core software for DIONAS.
- Provided representation to the NSSDC Configuration Control Board.
- Delivered database mod to track QUAL_STAT codes in the DIONAS database.
- Delivered a temporary AIP retrieval tool.

Work Element 410

August 2002

Data Systems Development

PBC Work Element Manager – David Han

OBJECTIVE: to perform all the necessary, non-personal services required to manage contractor and sub-contractor staff supporting the Operations portion of the Space Science Data Operations Office (SSDOO). The contractor management team will meet with the NSSDC and SSDOO management staff to discuss significant events, updates, issues and concerns from the Operations Group. The Metrics Tracking System will be maintained current.

SIGNIFICANT EVENTS:

- Held Operations management staff meetings as needed.
- Held meetings with Operations staff as needed.
- Attended Government/Contractor meetings as scheduled.
- Provided representation to the NSSDC Configuration Control Board.
- Reported monthly PBC Metrics for July '02.

Work Element 421

August 2002

NSSDC Data Ingest

PBC Work Element Manager – David Han

OBJECTIVE: to ingest data into the NSSDC on-line, nearline and offline data archives.

SIGNIFICANT EVENTS:

- Continued to ingest IMAGE data, received 8 deliveries with a total of 252 files. All were ingested in a timely manner.
- Continued to ingest ISIS –1 data, received 21 deliveries with a total of 21077 files. All were ingested in a timely manner.
- Continued to receive and archive data on physical media, a total of 632 GB on 1289 CDs and 4 magneto-optical disks from the Advanced Composition Experiment, Cluster 2, FAST, Geotail, Magellan, Polar, SAMPEX, Ulysses, Wind, and ISTP missions.
- Continued to advise the software development team with operational insights for design and development of enhancements to DIONAS; continued to support software testing in an operational environment.
- Continued to support the planning efforts for system and process design to migrate NSSDC data to the next generation of media.
- Continued data processing and ingest for the remaining data from NDADS, including ISIS, IRAS, Pioneer, Ulysses, San Marco, Mariner, Voyager and Wind.

Work Element 422

August 2002

NSSDC Data Ingest

PBC Work Element Manager – David Han

OBJECTIVE: to ensure that the data bundles entrusted to NSSDC are reliably findable, retrievable and usable into the indefinite future.

SIGNIFICANT EVENTS:

- Environmental monitors were checked each workday. The values recorded were out of compliance on 21 days. The PBC Work Element Manager was duly notified in a timely manner.
- Security was maintained and security procedures followed for the archive storage areas; there were no breaches.
- 1 box of tapes was recalled from off-site facilities at Iron Mountain and the Federal Records Center.
- Continued to advise the software development team with operational insights for design and development of enhancements of JIN; continued to support software.
- Continued to support the planning efforts for system and process design to migrate NSSDC data to the next generation of media.

Work Element 423

August 2002

Request Coordination and Services

PBC Work Element Manager – David Han

OBJECTIVE: to provide user support and request activities coordination for all data center services.

SIGNIFICANT EVENTS:

- The following user support was provided: e-mail referrals - 5; telephone - 21; faxes - 4; scientific assistance - 2; e-mail support - 55; data services - 51; special projects - 25.
- A total of 10,133 shipments were made including 2 Federal Express shipments.
- We completed 9,055 requests for 9,172 Milky Way posters and 1,032 requests for 1,040 COBE posters.
- The first work day of August there were 3,873 un-read mail messages in the posters account and on the last day of the month there were 10,427. There was a total of 6,554 new messages received in August.
- There were 113 MW posters and 67 COBE posters returned in July. The posters are returned for various reasons, mostly due to the recipient moving and not leaving a forwarding address.
- We did not receive any survey cards this month.
- We have a requester who is having problems using the MOC CD's with Windows ME. Susan Slavney is in direct contact with him to try to resolve the problem.
- Staff members continue to inventory all of the NSSDC photo archive data for the eventual creation of an Oracle database of all analog data.

Work Element 430

August 2002

NSSDC Data Ingest

PBC Work Element Manager – David Han

OBJECTIVE: to provide comprehensive information functionality related to availability of data, to all launched spacecraft and to many spaceborne experiments.

SIGNIFICANT EVENTS:

- Maintained and updated the NSSDC Master Catalog.
- Maintained and updated JRAND.
- Maintained and updated JEDS and IDA.
- Maintained AIM and TRF and made 33 updates to them.
- Resolved one problem report about the databases in a timely manner.
- Prepared and issued FILEX report in a timely manner.
- No SATX report was required this period.
- Prepared and issued SPACEWARN report in a timely manner.

Work Element 440

August 2002

Computing Systems Operations

PBC Work Element Manager – David Han

OBJECTIVE: to provide systems analysis and technical support to the operational computer activities of the NSSDC.

SIGNIFICANT EVENTS:

- Continued to maintain existing hardware (servers, Macs, PCs and peripherals) and system-level software – VMS, unix, Mac-OS, Windows, and other operational packages -- to ensure the optimal performance and connectivity. The average availability of systems for August 2002 was 99.96%.
- Continued to integrate new hardware and system-level software into existing systems to achieve upgraded capabilities and state-of-the-art facilities.
- Maintained security of the systems to minimize security breaches. No security breaches were detected in this reporting period.
- Continued to administer specialized software such as data base and disk management systems.
- Continued to provide users with the necessary documentation, training, and assistance so that resources are fully utilized.